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NOTICE OF ALLOWANCE AND FEE(S) DUE

23552 7590 10/08/2008 MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903 EXAMINER

MERCEDES, DISMERY E

ART UNIT PAPER NUMBER

2627

DATE MAILED: 10/08/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|-------------------------|------------------|
| 10/813,562 | 03/30/2004 | Walton Fong | 5872.0048US01/HSJ920030 | 1 4116 |

TITLE OF INVENTION: METHOD FOR CONTROLLING A BURNISH CYCLE TO MINIMIZE CYCLE TIME

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/08/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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| appropriate. All further indicated unless correcte maintenance fee notifical | correspondence includired below or directed oth | or transmitting the ng the Patent, adv nerwise in Block | ance or l, by (a | ders and notification of) specifying a new corre | maintenance lees v spondence address; | vill be and/or | mailed to the current (b) indicating a sepa | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Fee | Note: A certificate of mailing can only be used for domestic mailings of the Fe(§) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
| MERCHANT 4 P.O. BOX 2903 MINNEAPOLIS | 7590 10/08 & GOULD PC 5, MN 55402-0903 | /2008 | | I be | Cer | tificate | of Mailing or Trans | |
| | | | | | | | | (Depositor's name) |
| | | | | | | | | (Signature) |
| | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENTOR | ŧ. | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/813,562 | 03/30/2004 | | | Walton Fong | | 5872.0 | 048US01/HSJ9200301 | 4116 |
| TITLE OF INVENTION | | | | | | | | |
| APPLN, TYPE | SMALL ENTITY | ISSUE FEE D | Æ | PUBLICATION FEE DUE | PREV. PAID ISSU | E FEE | TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | NO | \$1510 | | \$300 | \$0 | | \$1810 | 01/08/2009 |
| EXAM | INER | ART UNIT | | CLASS-SUBCLASS |] | | | |
| MERCEDES, | | 2627 | | 360-031000 | | | | |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A' PLEASE NOTE: Uni recordation as set forti | ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp | nge of Correspond Indication form ted. Use of a Cust TO BE PRINTE | omer D ON T | data will appear on the μ Γ a substitute for filing an | o 3 registered pater vely, le firm (having as a agent) and the nam wreys or agents. If printed. pe) batent. If an assign assignment. | memb es of u no nan | er a 2 | ocument has been filed for |
| Please check the appropriate. 4a. The following fee(s): | iate assignee category or | categories (will n | _ | (B) RESIDENCE: (CITY inted on the patent): D. Payment of Fee(s): (Ple | Individual 🗖 Co | orporati | on or other private gro | up entity Government |
| ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) | | | | Payment by credit card. Form PTO-2038 is attached. | | | | |
| Advance Order - # of Copies | | | | The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | |
| | s SMALL ENTITY state | is. See 37 CFR 1.2 | | ☐ b. Applicant is no lor | nger claiming SMA | LLEN | FITY status. Sec 37 CF | R 1.27(g)(2). |
| NOTE: The Issue Fee and interest as shown by the | d Publication Fee (if req ecords of the United Sta | uired) will not be a tes Patent and Tra | iccepted demark | from anyone other than Office. | the applicant; a regi | stered | attorney or agent; or th | e assignee or other party in |
| Authorized Signature | | | | | Date | | | |
| Typed or printed name | | | | | Registration N | | | |
| This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450. | ER 1.311. The inf U.S.C. 122 and 3 USPTO. Time w rden, should be se O NOT SEND FER | ormatio 7 CFR ill vary nt to the S OR C | n is required to obtain or 1.14. This collection is es depending upon the indi chief Information Offic COMPLETED FORMS T | retain a benefit by t timated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS | he pub minuter omment Trader S. SEN | tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I | by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| MERCHANT & GOULD PC | | | MERCEDES, DISMERY E | | |
| P.O. BOX 2903 | | ART UNIT | PAPER NUMBER | | |
| MINNEAPOLIS, | MN 55402-0903 | 2627 | | | |

DATE MAILED: 10/08/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/813,562 FONG ET AL. Notice of Allowability Examiner Art Unit DISMERY E MERCEDES 2627 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amend filed 6/18/2008. The allowed claim(s) is/are 1-15. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

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|----|-------------|--------|------|
| 1. | \boxtimes | Notice | of |

- Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Examiner's Comment Regarding Requirement for Deposi of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

 Wayne Young/

Supervisory Patent Examiner, Art Unit 2627

Art Unit: 2627

DETAILED ACTION

- Claims 1-15 are allowed.
- The following is an examiner's statement of reasons for allowance:

Independent Claim 1 and 11, are allowable over the prior art of record since the cited references taken alone or in combination do not teach or suggests a method for minimizing the cycle time of a burnish test cycle, comprising: determining whether the measured resistance of the MR head indicates the head has clearance between the air-hearing surface of the slider and the recording surface; and when clearance between the air-hearing surface of the slider and the recording surface is not detected based upon the monitoring of the resistance measurements of the MR head, lowering a fft-height between the back portion of the air-hearing surface of the MR head and the recording surface and executing hurnishing operations on the back portion of the air hearing surface to remove material from the back portion of the air-hearing surface until the monitoring of the resistance measurements of the MR head indicates the air-hearing surface of the slider has clearance above the recording surface, in combination with the other limitations in the claim.

Independent Claim 6, is allowable over the prior art of record since the cited references taken alone or in combination do not teach or suggest: a drive controller for minimizing the cycle of a burnish test cycle, comprising: "determining whether the measured resistance of the MR head indicates the head has clearance between the air-bearing surface of the slider and the recording surface; and, when clearance between the air-bearing surface of the slider and the recording surface; and, when clearance between the air-bearing surface of the slider and the recording surface of the slider and the recording surface of the MR head, for lowering a ffy-height between the back portion of the air-bearing surface of the MR bead and the recording surface and executing burnishing operations on the back portion of the air bearing surface to remove material from the back portion of the air-bearing surface of the slider has clearance above the recording surface" in combination with the other limitations in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Smith (US 6,417,981); Felts et al. (US 5,863,237); Gillis et al. (US 6,359,433); Li et al. (US 2004/0085670); Brand et al. (US 2003/0058559); Egan (US 7,023,632); Fong et al. (US 2005/0044696); Fayeulle et al. (US 7,194,802); Boutaghou et al. (US 6,296,552); Fong et al. (US 7,054,084); Meyer et al. (US 6,577,466).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DISMERY E. MERCEDES whose telephone number is (571)272-7558. The examiner can normally be reached on Monday - Friday, from 9:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dismery E. Mercedes/ Examiner, Art Unit 2627

/Wayne Young/ Supervisory Patent Examiner, Art Unit 2627